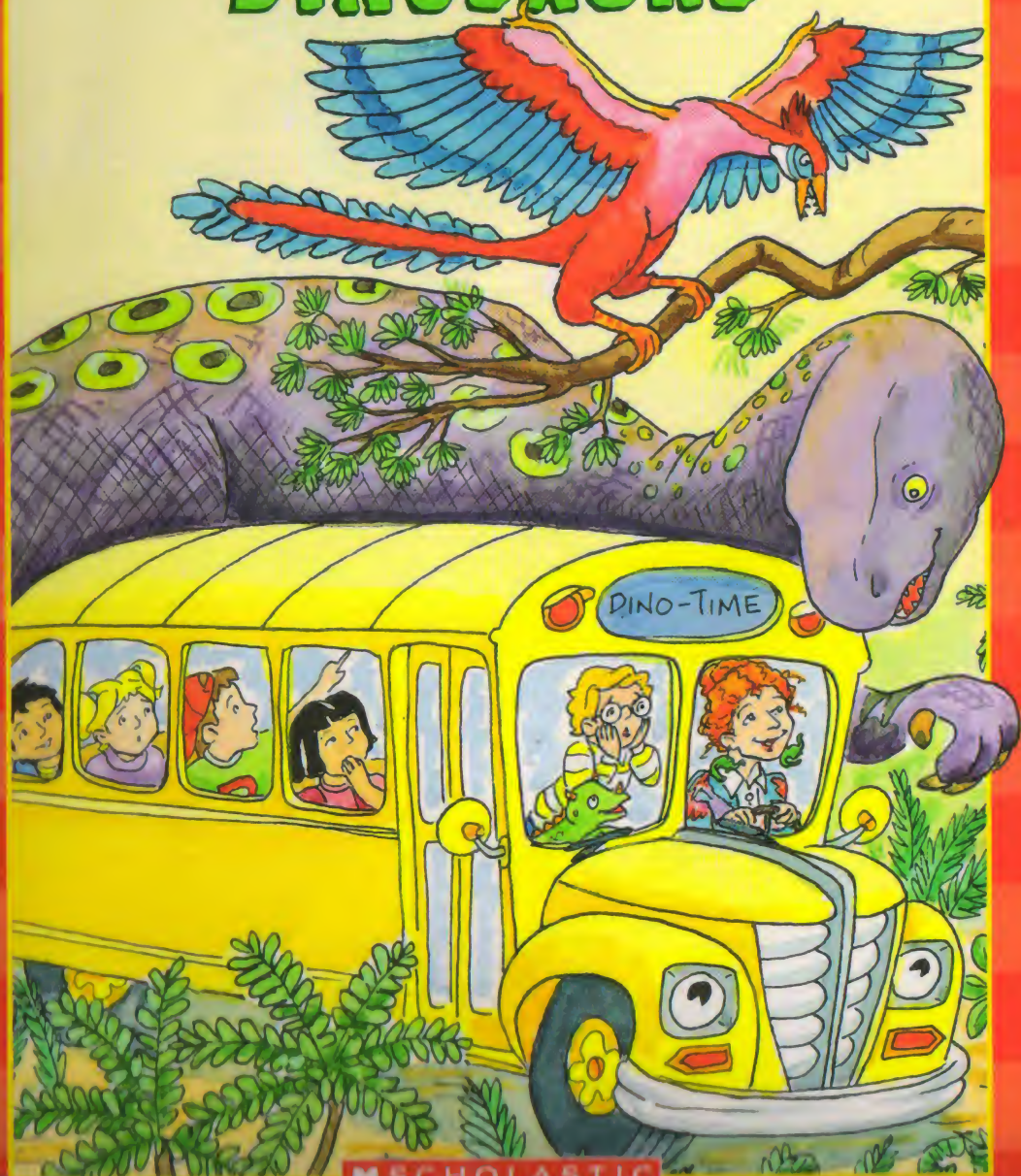


# The Magic School Bus

## FLIES WITH THE DINOSAURS





Ms. Frizzle



Liz

Written by Martin Schwabacher.  
Illustrated by Carolyn Bracken.

Based on *The Magic School Bus* books  
written by Joanna Cole and illustrated by Bruce Degen.

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Designed by Rick DeMonico.

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# The Magic School Bus<sup>®</sup>

## FLIES WITH THE DINOSAURS



Arnold   Ralphie   Keesha   Phoebe   Carlos   Tim   Wanda   Dorothy Ann



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New York   Toronto   London   Auckland   Sydney  
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It's fun to be in Ms. Frizzle's class.  
Her dresses are strange.  
Her shoes are strange.

PTEROSAUR

OUR BUS IS STRANGE.

IT'S THE MAGIC SCHOOL BUS!

TODAY:  
DINOSAURS!

IT CAN TAKE US  
ANYPLACE, ANYTIME!

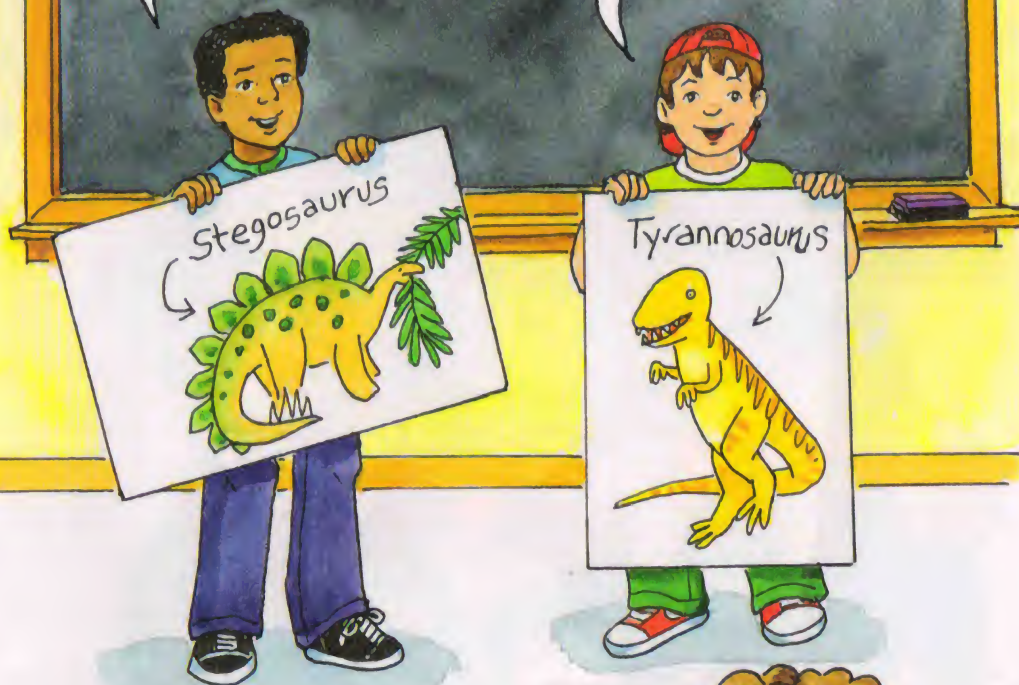




Today we are learning about dinosaurs.  
We all choose a favorite dinosaur.  
Then we draw pictures.

THIS DINOSAUR ATE PLANTS.

THIS DINOSAUR ATE OTHER DINOSAURS.



D.A. says her favorite dinosaur is her pet parrot, Dinah!  
"A parrot is not a dinosaur!" Ralphie says.  
"It's a bird," Tim agrees.

I THOUGHT ALL THE DINOSAURS  
DIED MILLIONS OF YEARS AGO.

NOT ALL OF THEM.



AM I A  
DINOSAUR?



0 MILLIONS AND MILLIONS  
OF YEARS AGO  
by Arnold

Dinosaurs lived long, long  
ago. It was so long ago that  
people were not around then.

0 JINZHOSAURUS





D.A. tells us that the first birds were small dinosaurs with feathers.

I READ THAT *DINOSAUR* MEANS "TERRIBLE LIZARD."

I'VE NEVER SEEN A LIZARD WITH FEATHERS.

YOU DON'T LOOK LIKE ANYONE IN MY FAMILY.

"Did birds really come from dinosaurs?"

Carlos asks.

Ms. Frizzle gets that funny look in her eyes.

"Let's look for clues!" she says.

TO THE BUS, CLASS!

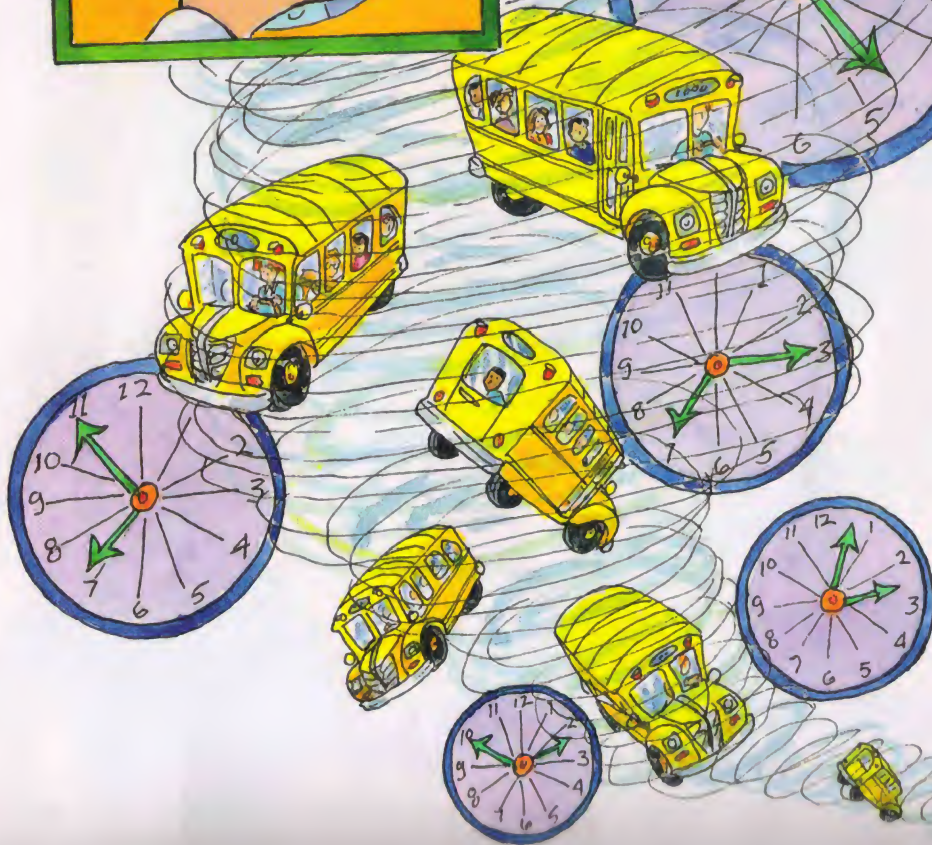
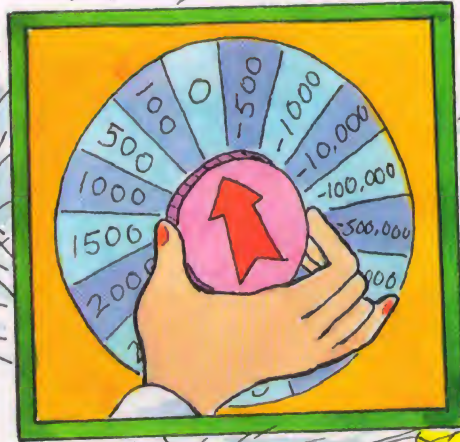
DINO TIME

COME ON, DINAH!



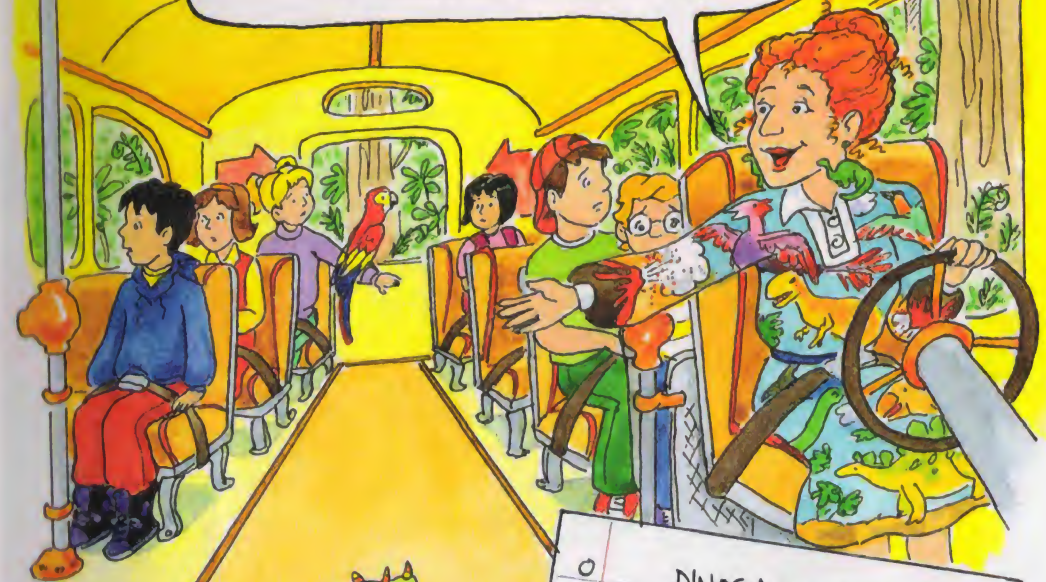
"We are going back in time!"  
Ms. Frizzle says.  
She pushes a button.  
Then she turns a knob.

UH-OH.  
NOT AGAIN!



We look out the window.  
Everything is different.  
We are in the time of the dinosaurs.

WE ARE IN CHINA. IT IS MILLIONS  
AND MILLIONS OF YEARS AGO!





The bus drives along.  
Soon, we see some dinosaurs.

PTEROSAUR

JINZHOUSAURUS

LOOK OUT!

IT'S OK. THAT DINOSAUR  
ONLY EATS PLANTS.

I'M GLAD I'M NOT A PLANT.





Something flies right at us.  
It's big!  
Ms. Frizzle says it's a pterosaur.

THAT THING  
IS FLYING!

MAYBE IT IS A BIRD.

YIKES!  
CAN WE GO HOME NOW?

Ms. Frizzle drives after the pterosaur.  
"Let's get a closer look," she says.

IT'S NOT  
A BIRD. LOOK  
CLOSELY AT  
ITS WINGS.

THAT'S TOO CLOSE!

ALL BIRDS HAVE FEATHERS  
by Carlos

Many animals have wings.  
But if they do not have  
feathers, they are not birds.

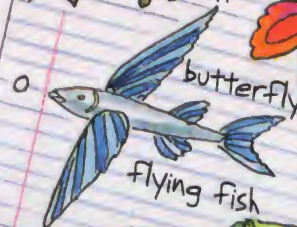
Pterosaurs do not have  
feathers. They are not birds.

NOT BIRDS

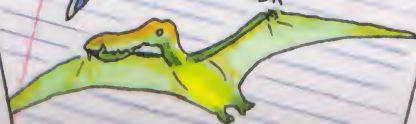


bat

butterfly



flying fish



pterosaur





The bus slows down. We see some small dinosaurs. They are sitting on eggs.

ARE THOSE BIRDS, MS. FRIZZLE?

LET'S GO SEE!

THOSE LOOK LIKE BIRD EGGS.

MEI

CAUDIPTERYX



The dinosaurs have feathers!  
"Are they birds?" Wanda asks.

DON'T WORRY, ARNOLD.

THESE DINOSAURS  
ARE PLANT EATERS.

WHAT ABOUT  
THAT ONE?

"No," Ms. Frizzle says. "They have  
arms, not wings.  
And they use their feathers to keep  
warm, not to fly."

SINORNITHOSAURUS





Arnold sees the dinosaur just in time.  
It has fuzzy, fluffy feathers that look  
like fur.

It also has claws! And it eats meat!  
The Friz says it can't fly, but it jumps  
right at us!

YIKES!

YIKES!

YIKES!

We run to a tree to hide.  
Ms. Frizzle is right behind us.

SEE HOW THE  
MOTHER PROTECTS  
HER EGGS, CLASS?



We climb into the tree.  
Then we see a strange bird.  
It has wings, and it can fly.  
But it also has teeth and a long tail!



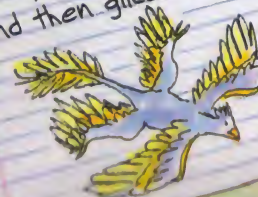
JEHOLORNIS



MICRORAPTOR

### HOW DID THE FIRST BIRDS FLY? by D.A.

- Before there were birds, there were small, feathered dinosaurs. No one knows how the first birds flew.
- Maybe they climbed trees and then glided down.



- Or maybe the first birds ran. Then they flapped their feathered wings to take off.



IT'S A BIRD!

IT'S A DINOSAUR!

IT'S ... BOTH?





Now we see some birds with beaks, not teeth. They look like birds do today!



CONFUCIUSORNIS

THE SAME INSIDE  
by Wanda

Dinosaurs and birds may look very different, but their bones show they are closely related.

Birds have light, hollow bones. Some dinosaurs also had arms that folded like bird wings. They were relatives of birds.


DINOSAUR

BIRD


FOR BOTH:

- Arms move and fold like wings
- Three toes
- Hip bone points back







Suddenly, there is a loud bang.  
Ashes shoot out of a volcano!



THE DINOSAURS WILL GET BURIED!




SO WILL WE!




Just in time, the bus appears.  
It has feathers and wings.  
It is a bird.  
It's the Magic School Bird!



HURRY, DINAH!



WE NEED TO GO  
BACK TO OUR TIME!



LET'S GET OUT OF HERE!



Now we are flying over China.  
We are in our time again.  
We see people looking  
for dinosaur fossils below.

LOOK! THEY JUST FOUND  
THE DINOSAURS WE SAW.

THEIR BONES ARE FOSSILS NOW.

### THE STORY OF FOSSILS by Arnold

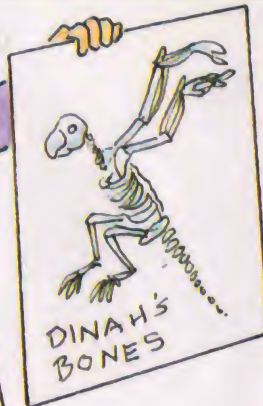
- After millions of years,  
the ashes turned to rock.  
The dinosaur bones  
turned to rock, too.
- Now they are called fossils.  
People find the fossils  
and learn about dinosaurs.





Wow! What a trip!  
Dinosaurs might be old, but we  
learned something new about them.  
Who knows what we'll find out next!

NOT ALL DINOSAURS DIED OUT.  
BIRDS ARE LIVING DINOSAURS!



LOOK AT MS. FRIZZLE'S DRESS....



IT MAKES ME SMILE.





## MORE ON BIRDS AND DINOSAURS

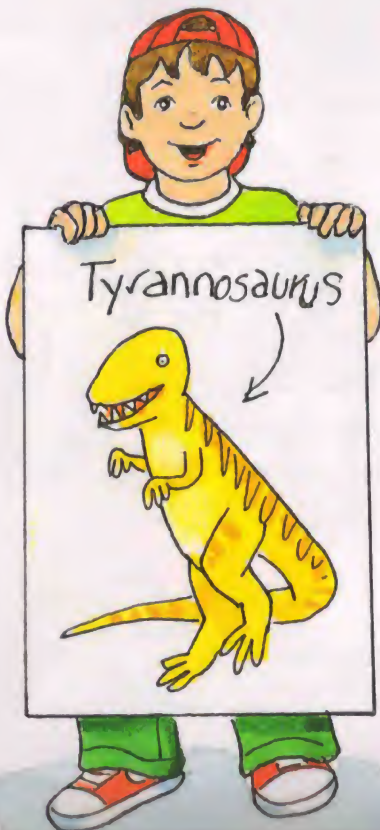
The dinosaurs in this book look strange, but they are all real. They were discovered very recently by fossil hunters in Liaoning, China.

These new discoveries were very important. They proved that birds were not the only animals with feathers. Other dinosaurs had feathers, too.

Dinosaur feathers changed over time: First some dinosaurs got soft, short, fluffy feathers. Then some dinosaurs got longer, stiffer feathers. Finally some small dinosaurs used their long, stiff feathers to fly. Some of these dinosaurs were the first birds.

After birds appeared, the earlier feathered dinosaurs did not all die out. Feathered dinosaurs that could not fly lived side by side with birds for millions of years.

That is why all the dinosaurs Ms. Frizzle and the kids see on their trip were living together in China 130 million years ago.



ANSWER: ANYTHING HE WANTS!

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**Gets Crabby**



Ms. Frizzle's class is drawing dinosaurs. But Dorothy Ann's picture is of her pet parrot. Ralphie tells her a parrot is a bird, not a dinosaur. Who is right?



Take off with Ms. Frizzle's class and find out all kinds of facts about dinosaurs!

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